King County

APPLICATIONS DEVELOPER – SENIOR
DEPARTMENT OF JUDICIAL ADMINISTRATION
Annual Salary Range: $66,352 - $84,105
Job Announcement: 06WM5927
OPEN: 4/5/06   CLOSE: Open Until Filled

WHO MAY APPLY: This position is open to all qualified career service employees who are members of IFPTE Local 17 Information Technology Employees Bargaining Unit, qualified career service employees, and the general public. Special consideration will be given in that order.

WHERE TO APPLY: Required forms and materials **must** be sent to: **Department of Judicial Administration, Attention Technology Division Manager, 516 Third Avenue, E-609, Seattle, WA 98104** or submitted via email to **DJAjobs@metrokc.gov**.   Application materials must be received by 4:30 p.m. on the closing date. (Postmarks are NOT ACCEPTED.) *PLEASE NOTE:* Applications not received at the location specified above and those that are not complete may not be processed.

*FORMS AND MATERIALS REQUIRED***:** A King County application form and data sheet, resume, a written response to the supplemental questionnaire on this announcement and a letter of interest detailing your background and describing how you meet or exceed the requirements. Application forms may be found at: http://www.metrokc.gov/ohrm/jobs/JobApplications.htm.

WORK LOCATION: King County Courthouse, 516 3rd Avenue, Seattle Washington and/or Regional Justice Center, 401 4th Avenue North, Kent Washington.

WORK SCHEDULE: This position is exempt from the provisions of the Fair Labor Standards Act, and is not overtime eligible. Work schedule is normally Monday through Friday, 8:00 a.m. – 5:00 p.m. May be required to work extended and/or flex scheduled work hours to respond to service needs.

PRIMARY JOB DUTIES INCLUDE: This position analyzes, designs, develops, codes, tests, implements, and maintains multiple business software applications in the Department of Judicial Administration, and will be responsible for all phases of the software development lifecycle for standalone and multi-tier Windows platform applications developed using primarily Microsoft-based tools and technologies. The primary job functions of this position include:

- Liaison with Department business unit management and staff, including learning and documenting business processes, performing business process analysis and reengineering, including process and workflow modeling, evaluating existing systems, performing system efficiency analysis, gathering user requirements, conducting joint application development and prototyping sessions, assessing or providing end-user training, and responding to application errors or malfunctions.
- Perform software engineering activities including, researching and evaluating design alternatives, selecting a design methodology, specifying software design patterns, determining re-usable systems and components, specifying major subsystems and interfaces, selecting design and development tools, developing business models, and validating architecture against models.

- Develop new software applications, maintain and update existing systems, and integrate new and existing applications; including writing and documenting code, performing unit testing, analyzing and resolving errors, integrating subsystems, updating detailed design and interface specifications, participating in peer code reviews, and developing and performing regression, functional, performance, and user acceptance tests.
- Participate in or lead the software development components of technology projects, including, preparing and conducting design reviews, developing detailed design specifications, identifying maintenance requirements, identifying impact on existing systems, identifying physical requirements for systems implementation, assigning and tracking development work, maintaining project schedules, reporting project status, and mentoring other developers.
- Provide complex data extraction and reporting services for existing systems.

QUALIFICATIONS: Successful candidates must possess an advanced knowledge of information systems, processes, techniques and computer technology principles. Requirements include:
- A minimum of 5 years work experience in information technology.
- A minimum of 3 years work experience as an application developer or software engineer, demonstrating a strong foundation in object-oriented software design and development and practical experience with the full software development lifecycle.
- A minimum of 2 years experience writing Microsoft.NET-based applications using C# (or VB.NET).
- A minimum of 1 year of GUI design experience using Windows Forms and Web Forms.
- Solid database skills with demonstrated experience with SQL Server, ADO.NET, stored procedures and complex queries.
- Strong knowledge of web interface technologies such as HTML, DHTML, CSS, JavaScript, ASP.NET, XML, XSLT, and AJAX
- Working knowledge of web services and familiarity with service-oriented architectures
- Excellent teamwork and interpersonal skills.
- Strong oral and written communications skills, including developing technical documentation and communicating technical information to a non-technical audience.

DESIRABLE QUALIFICATIONS:
- Solid understanding of version control and configuration management systems, including Microsoft SourceSafe.
- Experience with presentation layer toolkits such as Infragistics.
- Experience with Microsoft Office Automation tools and techniques.
- Experience with UML modeling tools and techniques.
- Experience with XML, including schema design.
- Familiarity with common software design patterns.
- Knowledge of workflow engines and electronic forms development.
- MCSD or equivalent certification.

SELECTION PROCESS: Applications will be screened for qualifications and clarity. The most competitive applicants may be invited to an interview.

UNION MEMBERSHIP: This position is represented by IFPTE Local 17 Information Technology Employees Bargaining Unit.
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<center>**CLASS CODE: 8787   SEQ NO.:0357**</center>

Provide a concise written response to each of the following questions. Print your name at the top of each page you submit.

Supplementary Questions

1. This position requires a strong foundation in object-oriented design and development principles. Please describe how your experience/training addresses this requirement.

2. Please describe your experience gathering user requirements and performing business process modeling, including any tools used or methodologies followed.

3. This position requires strong software coding skills in C# or VB.NET and the ability to create both web and native client applications in the Microsoft .NET environment.   Describe a non-trivial object-oriented client-server or multi-tier application you've developed in such an environment where you were the sole programmer.

4. Describe a software development project in which you were not the sole programmer.   What was your role, how was work coordinated between team members, and what application development lifecycle model was used?

5. Describe your experience with secure coding practices. If you've been involved in a project where security was a significant concern, please describe some of the challenges involved and how they were addressed.

6. This position requires skills in user interface design for both rich-client and web applications. Please describe the tools and interface standards with which you are familiar and describe how you approach the task of developing user interfaces.

7. Describe your approach to testing and instrumenting applications.

8. Practical experience in developing and consuming web services is a requirement of this position. Please describe your experience with web service development and identify what, in your opinion, are some of the distinguishing characteristics of developing applications for a service oriented architecture.

9. If you have had the opportunity to develop APIs or reusable components, please give an example, and describe how your component was designed and documented, and how it was used by other developers.

10.   Describe your experience with software build and release management activities; define what process you would follow to transition an application through development, test, and production environments.

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